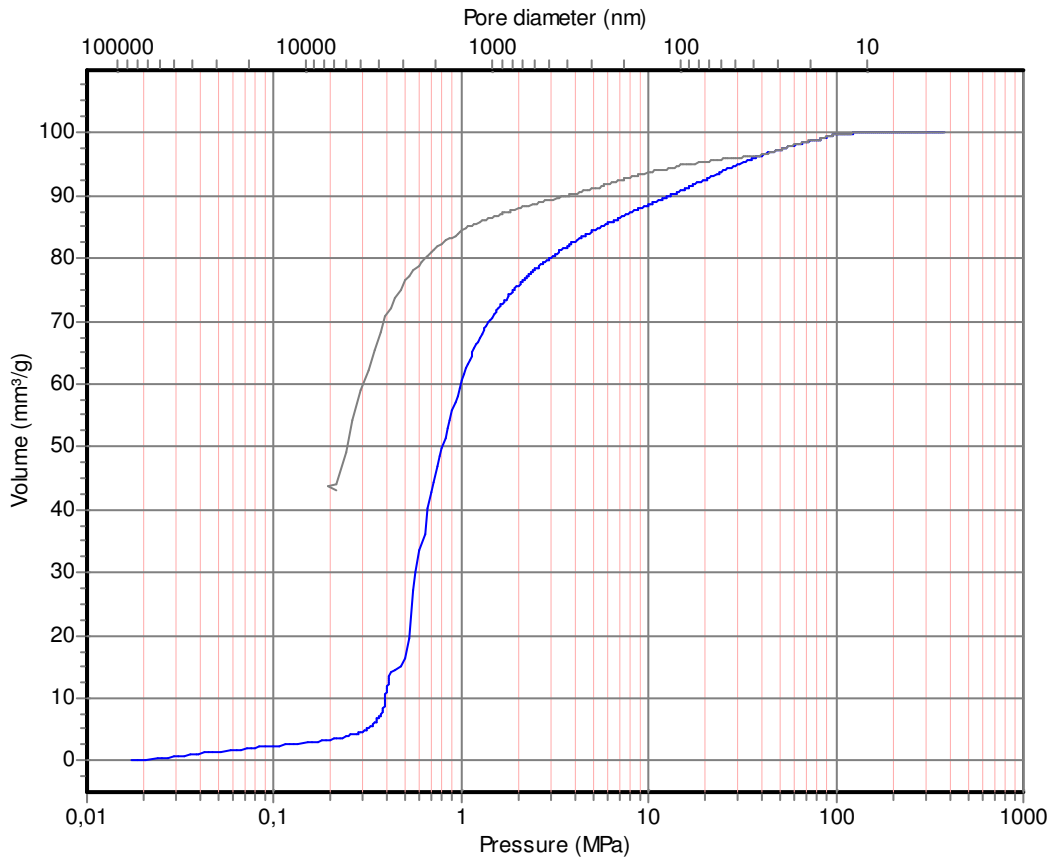


File name: S:...\Solid\Data\BAM 8.2 Kruschwitz\2016-P52\D_18-2019c.144

SOLID REPORTINGCompany name: BAM - FB 1.3
Operator: C. Prinz**TEST INFORMATION**Test date: 20-06-16
Sample name: D_18 Anhydrid Estrich [5612]
Comment:
Sample mass (g): 0,9886
Sample skeleton density (g/cm³): 2,18
Test file name: S:...\Solid\Data\BAM 8.2 Kruschwitz\2016-P52\D_18-2019.P44
Combined with file (140): S:...\Solid\Data\BAM 8.2 Kruschwitz\2016-P52\D_18-2019.P14
Mercury surface tension (N/m): 0,48
Mercury contact angle (°): 140,0
Test filling volume (mm³): 448,0 at P < 1 Pa
Starting hydr. press. of test (MPa): 0,0124
(Dil+Hg+Sample) weight (g): 170,49
Corrected weight (Dil.+Hg+Sample) (g): 170,869**ANALYTICAL CONDITIONS**Maximum test pressure (MPa): 400
Increase speed: 5 - 17 MPa/min
Increase method: Pascal Stepwise
Decrease speed: 5 - 17 MPa/min
Decrease method: Pascal Stepwise
Temperature of test (°C): 23,7
Mercury density @ test (g/cm³): 13,5372**BLANK & DILATOMETER INFORMATION (Data from Pascal 440 file)**Blank date: 26-02-15
Blank filename: S:\Archiv\Mess-Files\Pascal140-440\Solid\Blank\Dil184-CD3N\Dil184-400-3.P44
Comment: Hochdruckbereich
Blank Max pressure (MPa): 400
Blank Increase speed: 5 - 17 MPa/min
Blank Increase method: Pascal
Blank Decrease speed: 5 - 17 MPa/min
Blank Decrease method: Pascal
Dil. number: 25
Dil. type: CD3P
Dil. Cone length (mm): 25
Dil. Electrode gap (mm): 5
Dil. stem radius (mm): 1,5
Dil. weight (g): 58,7117
Temperature of blank (°C): 22,7
Mercury density @ blank (g/cm³): 13,5396
Blank filling volume (mm³): 476 at P < 1 Pa
Starting hydr. blank press. (MPa): 0,012977
(Dil+Hg) weight (g): 175,91

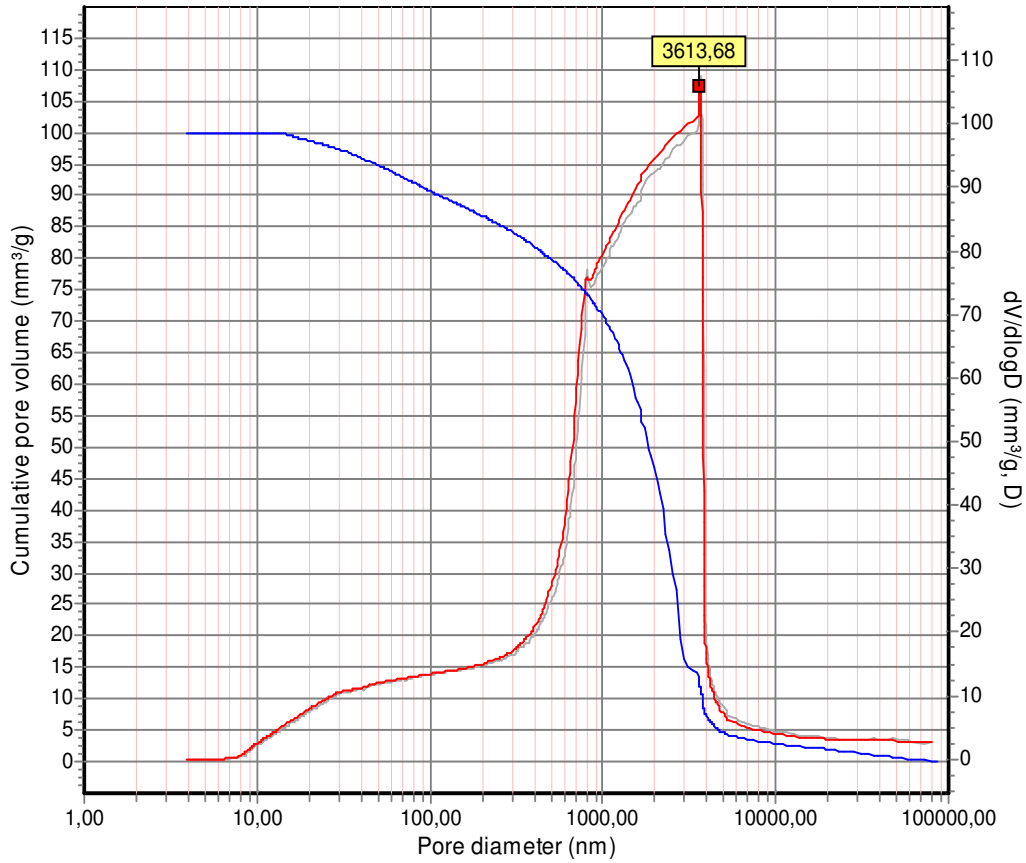
Inc / Dec - D_18 Anhydrid Estrich [5612]



RESULTS WITHOUT COMPRESSIBILITY CORRECTION

Total intruded volume (mm ³)	98,85		
Total intruded volume (mm ³ /g):	99,99	at pressure of MPa:	374,4105
Spec. Vol. by skeleton dens. (mm ³ /g) Vd:	-9,72		
Bulk density (g/cm ³):	2,2272		
Envelope density (g/cm ³):	2,2273	at pressure of MPa:	0,017 Diam.(nm) 85264,1
Apparent density (g/cm ³):	2,8653	at pressure of MPa:	374,4105 Diam.(nm) 3,9
Porosity by skeleton density (%):	-2,17	Calculated by skeleton density of	2,18 g/cm ³
Porosity by Hg intrusion (%):	22,27		
Inaccessible porosity (%):	-24,43		

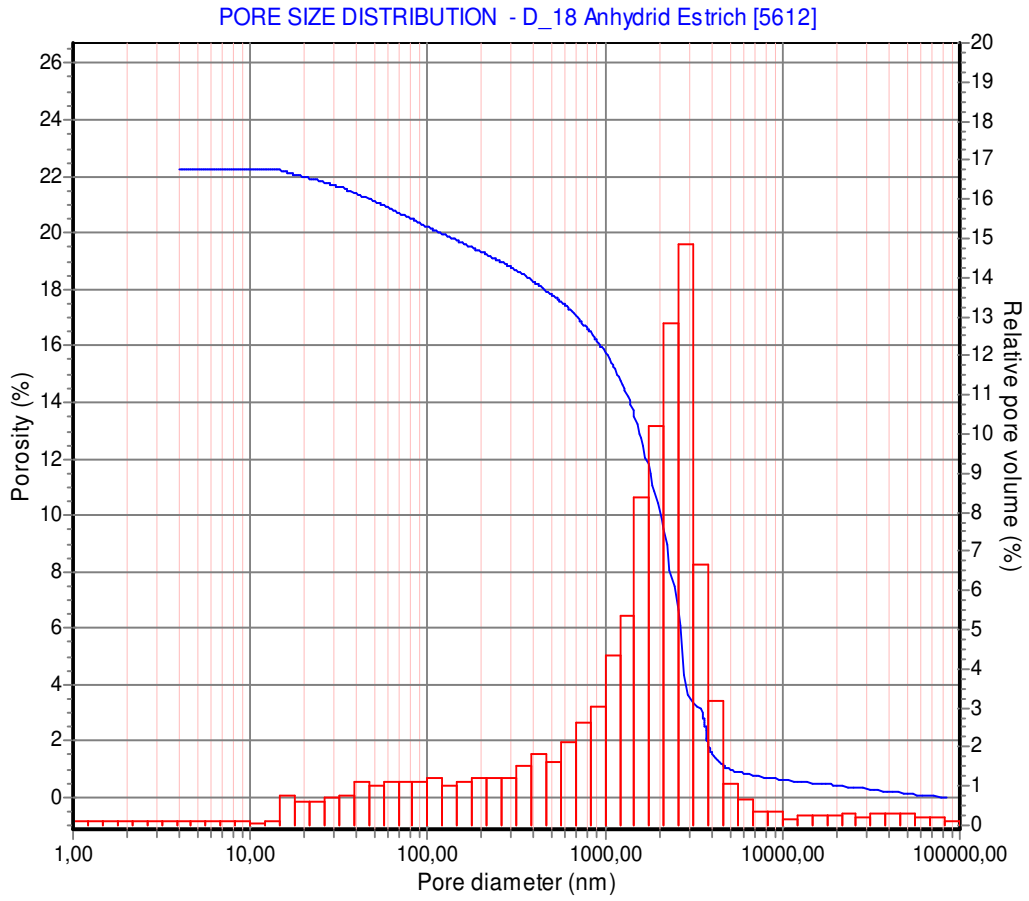
PORE SIZE DISTRIBUTION - dV/dlogD (mm³/g, D) - D_18 Anhydrid Estrich [5612]



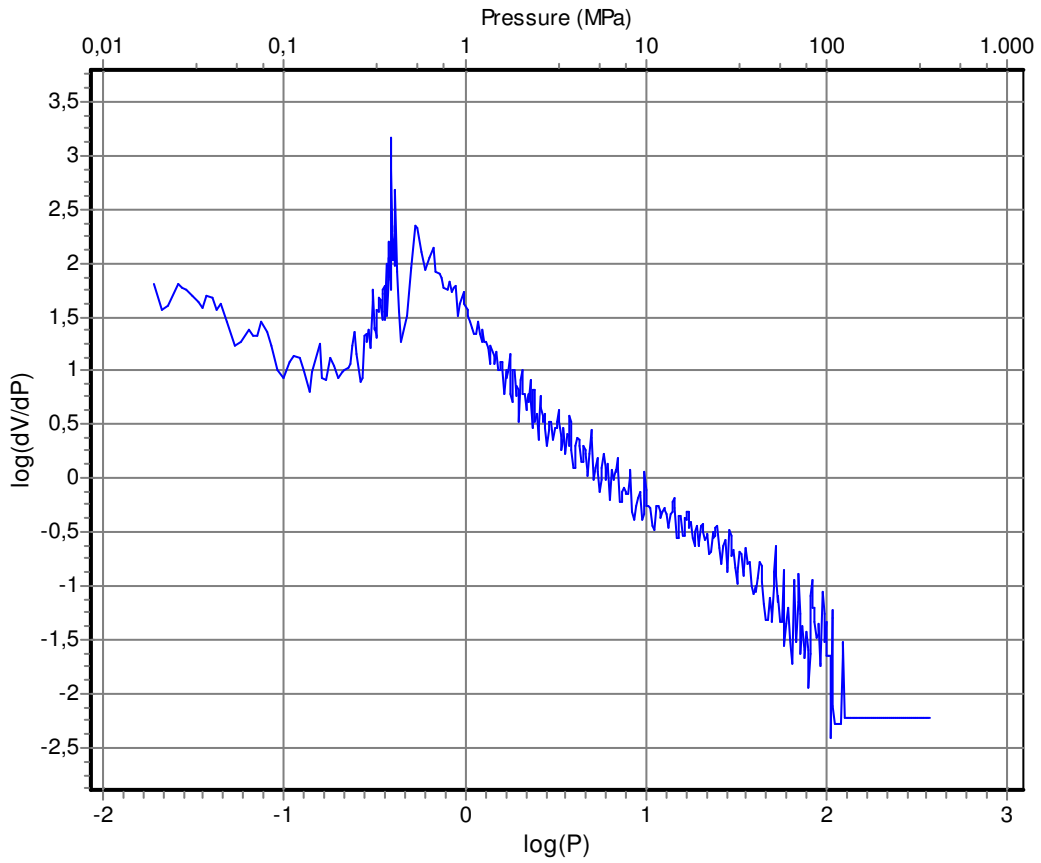
Derivative calculated with
 Moving average points: 99
 Smoothing factor: 0,80

Calc. press. range (MPa):	0.0 to 374,41		
Total pore volume (mm ³ /g):	99,99		
Total pore surface area (m ² /g):	1,418	with model :	Cylindrical and Plate
Average pore diameter (nm):	281,97	Hydraulic (4V/A)	
Median pore diameter (nm):	1846,98	at (mm ³ /g) :	49,99
Modal pore diameter (nm):	3613,68	at dV/dlogD (mm ³ /g, D) :	105,99
Span:	0,00	at Min. Vol. (%) :	0,0
		at Max. Vol. (%) :	0,0

TOTAL PORE SIZE HISTOGRAM



FRACTAL DIMENSION OVERALL - D_18 Anhydrid Estrich [5612]



Calc. press. range (MPa):: 0,0 to 374,4
Fractal dimension overall: 2,72

RESULTS OF TORTUOSITY:

Surface area model:	Cylindrical and Plate
Tortuosity (Carniglia):	1,978
Tortuosity extended calculated:	from Customer choice area
Customer choice area:	1,0
Exponent cylindrical pore:	1,754
Tortuosity extended (Carniglia):	0,795

RESULTS OF PERMEABILITY:

Cylindrical pores permeability (μm^2):	553,3E-4
General permeability calculated:	from Tortuosity
General permeability (μm^2):	559,35E-4